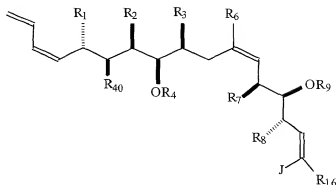


What is claimed is:

1. A compound of formula:



wherein:

- 5 R<sub>1</sub>, R<sub>2</sub>, R<sub>7</sub>, and R<sub>8</sub> are independently selected from hydrogen and C<sub>1</sub>-C<sub>10</sub> alkyl;

R<sub>3</sub>, R<sub>6</sub>, and R<sub>16</sub> are independently selected from hydrogen and C<sub>1</sub>-C<sub>6</sub> alkyl;

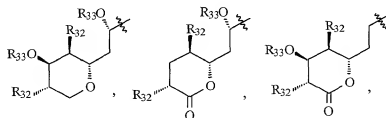
- 10 R<sub>4</sub> and R<sub>9</sub> are selected from hydrogen and acid labile protecting groups;

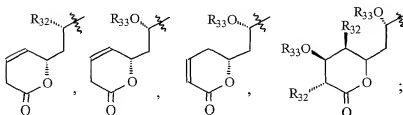
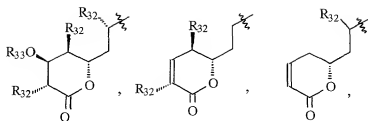
R<sub>40</sub> is selected from OR<sub>25</sub> and OC(=O)NH<sub>2</sub>;

R<sub>25</sub> is selected from hydrogen and an oxidatively labile protecting group; and

J is selected from:

15





alkaryl and alkheteroaryl wherein aryl and heteroaryl are optionally substituted and alk is optionally substituted with  $R_{32}$  or  $OR_{33}$ ;

wherein:

$R_{32}$  is selected from hydrogen and  $C_1$ - $C_6$  alkyl; and

$R_{33}$  is selected from hydrogen and an acid labile hydroxy protecting group.

2. The compound of claim 1 wherein  $R_6$  is H.

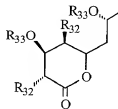
3. The compound of claim 1 wherein  $R_1$ ,  $R_2$ ,  $R_7$ , and  $R_8$  are methyl.

4. The compound of claim 1 wherein  $R_4$ ,  $R_9$ , and  $R_{33}$  are hydrogen.

5. The compound of claim 1 wherein  $R_1$ ,  $R_2$ ,  $R_7$ , and  $R_8$  are methyl;  $R_4$ ,  $R_6$ , and  $R_9$  are hydrogen; and  $R_{40}$  is  $-\text{OC}(\text{O})\text{NH}_2$ .

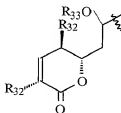
6. The compound of claim 5 wherein J is

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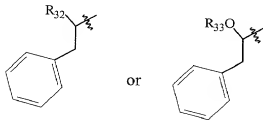
wherein  $R_{32}$  is methyl and  $R_{33}$  is hydrogen.

7. The compound of claim 1 wherein  $R_1$ ,  $R_2$ ,  $R_6$ ,  $R_7$ , and  $R_8$  are methyl;  $R_4$  and  $R_9$  are H;  $R_{40}$  is  $-\text{OC}(\text{O})\text{NH}_2$ ; and J is



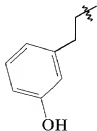
10 wherein  $R_{32}$  is methyl and  $R_{33}$  is H.

8. The compound of claim 1 wherein J is

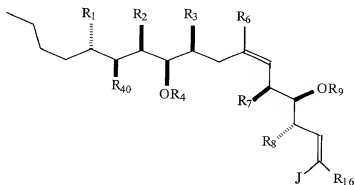


wherein the phenyl group is optionally substituted with  $\text{C}_1\text{-C}_4$  alkyl, haloalkyl, hydroxy, alkoxy, or haloalkoxy.

9. The compound of claim 8 wherein  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_6$ ,  $R_7$  and  $R_9$  are methyl,  $R_4$ ,  $R_9$ , and  $R_{16}$  are hydrogen,  $R_{40}$  is  $-OC(=O)NH_2$ , and J is



5 10. A compound having the following formula:



wherein:

$R_1$ ,  $R_2$ ,  $R_7$ , and  $R_6$  are independently hydrogen or  $C_1$ - $C_{10}$  alkyl;

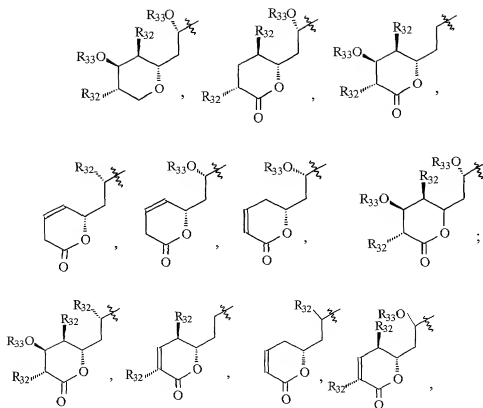
10  $R_3$ ,  $R_6$ , and  $R_{16}$  are independently hydrogen or  $C_1$ - $C_6$  alkyl;

$R_4$ , and  $R_9$  are independently hydrogen or acid labile protecting groups;

$R_{40}$  is selected from  $OR_{25}$  and  $OC(=O)NH_2$ ;

15  $R_{25}$  is hydrogen or an oxidatively labile protecting group;

J is selected from:



alkaryl and alkheteroaryl wherein aryl and heteroaryl  
 5 are optionally substituted and alk is optionally substituted  
 with  $R_{32}$  or  $OR_{33}$ ;

wherein

$R_{32}$  is hydrogen or  $C_1$ - $C_6$  alkyl; and

$R_{33}$  is hydrogen or an acid labile hydroxy protecting  
 10 group.

11. The compound of claim 10 wherein  $R_6$  is H.

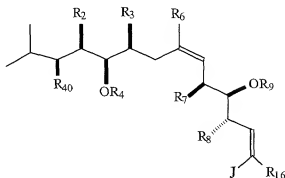
12. The compound of claim 10 wherein  $R_1$ ,  $R_2$ ,  $R_7$ ,  
 and  $R_8$  are methyl.

13. The compound of claim 10 wherein  $R_4$ ,  $R_9$ , and  $R_{33}$   
 15 are hydrogen.

14. The compound of claim 10 wherein  $R_1$ ,  $R_2$ ,  $R_7$ ,

and  $R_8$  are methyl;  $R_4$ ,  $R_6$ ,  $R_9$ , and  $R_{33}$  are H; and  $R_{40}$  is  $-OC(O)NH_2$ .

15. A compound having the formula:



5 wherein

$R_2$ ,  $R_7$ , and  $R_8$  are independently hydrogen or  $C_1$ - $C_{10}$  alkyl;

$R_3$ ,  $R_6$ , and  $R_{16}$  are independently hydrogen or  $C_1$ - $C_6$  alkyl;

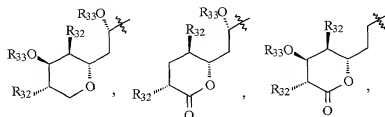
$R_4$ ,  $R_9$ , and  $R_{33}$  are independently hydrogen or acid labile protecting groups;

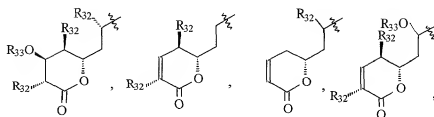
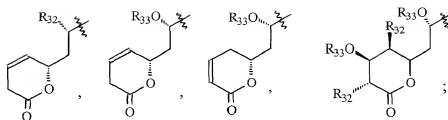
10  $R_4$  and  $R_9$  are independently hydrogen or acid labile protecting hydroxyl groups;

$R_{40}$  is selected from  $OR_{25}$  and  $OC(=O)NH_2$ ;

$R_{25}$  is hydrogen or an oxidatively labile protecting group; and

15  $J$  is selected from:





alkaryl and alkheteroaryl wherein aryl and heteroaryl are optionally substituted and alk is optionally substituted  
 5 with  $R_{32}$  or  $OR_{33}$ ;

wherein

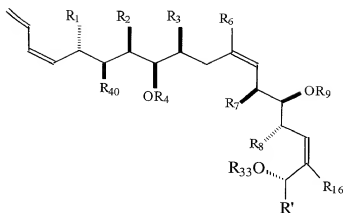
$R_{32}$  is hydrogen or  $C_1$ - $C_6$  alkyl; and

$R_{33}$  is hydrogen or an acid labile hydroxy protecting group.

10 16. The compound of claim 15 wherein  $R_6$  is H.

17. The compound of claim 15 wherein  $R_1$ ,  $R_2$ ,  $R_7$ ,  
 and  $R_8$  are methyl.

18. A compound having the formula:



wherein:

5  $R_1$ ,  $R_2$ ,  $R_7$ , and  $R_8$  are independently hydrogen or  $C_1$ - $C_{10}$  alkyl;

$R_3$ ,  $R_6$ , and  $R_{16}$  are independently hydrogen or  $C_1$ - $C_6$  alkyl;

$R_4$ ,  $R_9$ , and  $R_{33}$  are independently hydrogen or acid labile protecting groups;

10  $R_4$ ,  $R_9$ , are independently hydrogen or acid labile protecting hydroxyl groups;

$R_{25}$  is hydrogen or an oxidatively labile protecting group;

$R_{40}$  is selected from  $OR_{25}$  and  $OC(=O)NH_2$ ;

$R'$  is methyl or alkyl- $R''$ ; and

15  $R''$  is  $C_1$ - $C_{10}$  alkoxy, hydroxy, or  $-C(O)CH_3$ .

19. The compound of claim 18 wherein  $R_6$  is hydrogen.

20. The compound of claim 18 wherein  $R_1$ ,  $R_2$ ,  $R_7$ , and  $R_8$  are methyl.



21. The compound of claim 20 wherein  $R_4$ ,  $R_9$ , and  $R_{33}$  are H.

22. The compound of claim 18 wherein  $R_1$ ,  $R_2$ ,  $R_7$ , and  $R_8$  are methyl;  $R_4$ ,  $R_6$ ,  $R_9$ , and  $R_{33}$  are H; and  $R_{40}$  is  $-\text{OC}(\text{O})\text{NH}_2$ .

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